

Application No. 10/774,305

AMENDMENTS TO THE CLAIMS

A detailed listing of all claims that are, or were, in the present application, irrespective of whether the claim(s) remains under examination in the application are presented below. The claims are presented in ascending order and each includes one status identifier. Those claims not cancelled or withdrawn but amended by the current amendment utilize the following notations for amendment: 1. deleted matter is shown by strikethrough for six or more characters and double brackets for five or less characters; and 2. added matter is shown by underlining.

1. (Currently Amended) A security lock comprising:
 - at least one key insertable into the lock;
 - a plurality of rotatable discs with at least one of the discs being rotatable by the at least one key;
 - a plurality of sensors capable of optically sensing surface changes of the rotatable discs during rotation of the at least one of the discs to generate a signal used to define a change of state count corresponding with the surface changes;
 - a controller in operable communication with the plurality of sensors, the controller adapted to process the change of state count [[data]] from the sensors; and
 - an input device in operable communication with the controller to input transactional data for processing by the controller.
2. (Currently Amended) The security lock of claim 1, wherein the plurality of sensors include an infrared sensor having a light emitting diode and a phototransistor for optically sensing the surface changes during rotation of the at least one of the discs.

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3. (Original) The security lock of claim 1, wherein the surface changes of the rotatable discs are defined by a plurality of highs and lows along the surface of the rotatable discs.
4. (Original) The security lock of claim 1, wherein the controller comprises a processor in operable communication with the sensors.
5. (Currently Amended) The security lock of claim 4, wherein the processor compares the signal [[data]] from the sensors with programmed key data to generate a lock command signal.
6. (Original) The security lock of claim 5, wherein the lock command signal is a transaction approval signal to enable completion of a corresponding transaction.
7. (Original) The security lock of claim 6, wherein the corresponding transaction is selected from a group consisting of: a credit card transaction and a consumer purchase transaction.
8. (Original) The security lock of claim 1, wherein the transactional data received by the input device is purchase amount data for use in a commercial transactional environment.
9. (Original) The security lock of claim 4, further comprising a pin entry keypad in operable communication with the processor.
10. (Original) The security lock of claim 9, wherein the pin entry keypad is adapted to receive a user identifying pin code, the user identifying pin code being associated by the processor with the at least one key.

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11. (Currently Amended) The security lock of claim 10, wherein the processor compares the signal [[data]] from the sensors with the user identifying pin code and programmed key data to generate a lock command signal.
12. (Original) The security lock of claim 11, wherein the lock command signal is a transaction approval signal to enable completion of a corresponding transaction.
13. (Original) The security lock of claim 12, wherein the corresponding transaction is selected from a group consisting of: a credit card transaction and a consumer purchase transaction.
14. (Original) The security lock of claim 1, wherein the input device is housed on a portion of the lock.
15. (Original) The security lock of claim 1, wherein the input device is housed separate from the lock.
16. (Original) The security lock of claim 15, wherein the input device is housed with a remote processing system in operable communication with the controller.
17. (Original) The security lock of claim 1, further including a display device in operable communication with the controller and adapted to display transactional prompting.

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18. (Currently Amended) A security system comprising:

a plurality of displaceable discs, wherein at least one of the plurality of displaceable discs includes a plurality of reflective surface changes;

at least one sensor capable of optically sensing the reflective surface changes of the at least one displaceable disc during rotation of the at least one displaceable disc to generate a reflective surface change of state count;

a processor in operable communication with the at least one sensor and adapted to process at least the reflective surface change[[s]] of state count of the at least one displaceable disc and generate a lock command signal; and

an input device in operable communication with the processor to input transactional data.

19. (Original) The system of claim 18, further including an external processing system in operable communication with the processor and adapted to receive the lock command signal and the transactional data for further transactional processing in a consumer purchasing environment.

20. (Original) The system of claim 19, wherein the lock command signal is selected from a group consisting of: transaction approved and transaction denied.

21. (Original) The system of claim 18, further comprising a pin entry keypad in operable communication with the processor.

22. (Original) The system of claim 21, wherein the pin entry keypad is adapted to receive a user identifying pin code, the user identifying pin code being associated by the processor with the at least one key.

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23. (Currently Amended) The system of claim 22, wherein the processor compares change of state count [[data]] from the sensors with the user identifying pin code and programmed key data to generate the lock command signal.

24. (Original) The system of claim 18, wherein the input device is housed on a portion of the lock.

25. (Original) The system of claim 18, wherein the input device is housed separate from the lock.

26. (Original) The system of claim 25, wherein the input device is housed with a remote processing system in operable communication with the controller.

27. (Original) The system of claim 18, further including a display device in operable communication with the processor and adapted to display transactional prompting.

28. (Currently Amended) A method of performing a transaction utilizing an optic security lock, comprising the steps of:
inserting a key into a lock housing such that the key engages a plurality of discs housed within the lock housing and the key is adapted to rotatably displace at least one of the discs;
turning the key to initiate the rotational displacement of the at least one disc;
optically sensing, at a plurality of sensors, [[the]] changes of state of the at least one disc during rotational displacement and communicating a signal from the sensor corresponding with the changes of state [[data]] to a processing system;

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entering transactional data at an input device in operable communication with the processing system; and

generating a lock command signal based on processing comparisons at the processing system of the optically sensed changes of state of the at least one disc.

29. (Currently Amended) The method of claim 28, wherein the lock command signal is a transaction denied signal based on the comparison of the optically sensed changes of state with key data stored in the processing system.

30. (Currently Amended) The method of claim 28, wherein the lock command signal is a transaction approved signal based on the comparison of the optically sensed changes of state with key data stored in the processing system.

31. (Original) The method of claim 28, further including entering a personal identification number into a pin entry keypad device whereby the personal identification number is considered when processing data and generating the lock command signal.

32. (Currently Amended) The method of claim 28, wherein the signal from the sensor is changes of state data are communicated to the processing system housed within the lock.

33. (Currently Amended) The method of claim 28, wherein the signal from the sensor is changes of state data are communicated to the processing system housed remote from the lock.

34. (Original) The method of claim 28, further including displaying transactional prompting at a display in operable communication with the processing system.

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35. (Currently Amended) A security lock comprising:

at least one key insertable into the lock;

a plurality of rotatable discs with at least one of the discs being rotatable by the at least one key;

means for optically sensing surface changes of the rotatable discs during rotation of the at least one rotatable disc and using the optically sensed surface changes to generate a change of state signal;

control means in operable communication with each of the sensors for processing the change of state signal [[data]] from the means for optically sensing to generate a lock command signal; and

means for inputting transactional data in operable communication with the control means.

36. (Currently Amended) The security lock of claim 35, wherein the means for optically sensing includes at least one infrared sensor having a light emitting diode and a phototransistor for optically sensing rotation of the discs.

37. (Original) The security lock of claim 35, wherein the surface changes of the rotatable discs are defined by a plurality of highs and lows along the surface of the rotatable discs.

38. (Currently Amended) The security lock of claim 35, wherein the control means comprises a processor in operable communication with the means for optically sensing.

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39. (Currently Amended) The security lock of claim 38, wherein the processor compares the change of state signal [[data]] from the means for optically sensing with programmed key data to generate the lock command signal.

40. (Original) The security lock of claim 39, wherein the lock command signal is a transaction approval signal to enable completion of a corresponding transaction.

41. (Original) The security lock of claim 40, wherein the corresponding transaction is selected from a group consisting of: a credit card transaction and a consumer purchase transaction.

42. (Original) The security lock of claim 35, wherein the transactional data received by the entry device is purchase amount data for use in a commercial transactional environment.

43. (Original) The security lock of claim 35, further including a display device in operable communication with the control means and adapted to display transactional prompting.